To:

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

Commissioner
US Department of Commerce
United States Patent and Trademark
Office, PCT
2011 South Clark Place Room
CP2/5C24
Arlington, VA 22202

Date of mailing (day/month/year) 03 January 2001 (03.01.01)	ETATS-UNIS D'AMERIQUE in its capacity as elected Office
International application No.	Applicant's or agent's file reference
PCT/US00/04442	5274.01
International filing date (day/month/year)	Priority date (day/month/year)
23 February 2000 (23.02.00)	23 February 1999 (23.02.99)
Applicant	

1	The designated Office is hereby positive of its starting made.
1.	The designated Office is hereby notified of its election made:
	X in the demand filed with the International Preliminary Examining Authority on:
	13 September 2000 (13.09.00)
	in a notice effecting later election filed with the International Bureau on:
2.	The election X was
	was not
	made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

Juan Cruz

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35



WORLD INTELLECTUAL PROPERTY ORGANIZATION International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 7:	A 1	(11) International Publication Number: WO 00/4999
A61K 6/00, 31/04, A01N 33/18, 33/24	A1	(43) International Publication Date: 31 August 2000 (31.08.0
(21) International Application Number: PCT/USO (22) International Filing Date: 23 February 2000 (2 (30) Priority Data: 60/121,430 23 February 1999 (23.02.99) (71) Applicant (for all designated States except US): DEI CORPORATION [US/US]; 2727 Skyway Drive Maria, CA 93455 (US).	23.02.0 L	BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EI ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JI KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RI SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UC US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KI LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AN AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AN BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, JE, JT, LJ
 (72) Inventors: IBSEN, Robert, L.; 1715 East Marie Santa Maria, CA 93454 (US). MATTHEWS, Ala Foxen Court, Santa Maria, CA 93455 (US). CHAI Thomas, C.; 496 Alegre Avenue, Nipomo, CA 9344 PINEDA, Rachel; 927 West Stowell Road, Santa May 93458 (US). (74) Agent: RYAN, John, W.; Dorsey & Whitney LLP, South, 1001 Pennsylvania Avenue, N.W., Washing 20004 (US). 	an; 430 DWICI 44 (US Iaria, C	Published With international search report. With amended claims.

(57) Abstract

A transparent, alcohol-free, aqueous oral rinse composition comprising more than 0.04 % by weight benzocaine, carbomer in an amount that is roughly equal to half the amount of benzocaine employed, and water. The composition relieves the soreness of aphthous ulcers and similar mouth sores.

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INTERNATIONAL SEARCH REPORT

International application No. PCT/US00/04442

					
A. CLASSIFICATION OF SUBJECT MATTER IPC(7) :A61K 6/00, 31/04; A01N 33/18, 33/24					
US CL	US CL :424/401; 514/740, 741, 901				
According t	to International Patent Classification (IPC) or to both	national classification and IPC			
	DS SEARCHED				
Minimum d	ocumentation searched (classification system followed	d by classification symbols)			
U.S. :	424/401; 514/740, 741, 901				
Documentat	tion searched other than minimum documentation to the	extent that such documents are included	in the fields searched		
	•				
Electronic d	ata base consulted during the international search (na	me of data base and, where practicable	, search terms used)		
Please Sec	e Extra Sheet.				
C. DOC	UMENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.		
X	US 5,547,657 A (SINGLETON (20.08.1996), see entire document.	et al.) 20 August 1996	1-3, 10-13		
A	(20.06.1990), see entire document.		4-9, 13-20		
Y,P US 5,994,383 A (DYER et al) 30 November 1999 (30.11.1999), column 7, lines 28-46, column 11, lines 53-65, column 14, line 4.			1-20		
	Totalin 1, into 20 40, column 11, into	23 33-03, column 14, mic 4.			
Î					
		· ·			
Furth	ter documents are listed in the continuation of Box C	. See patent family annex.	_		
• Sp	ecial categories of cited documents:	"T" later document published after the int date and not in conflict with the app			
	cument defining the general state of the art which is not considered be of particular relevance	the principle or theory underlying the			
'E' ear	rlier document published on or after the international filing date	"X" document of particular relevance; the			
	cument which may throw doubts on priority claim(s) or which is ed to establish the publication date of another citation or other	when the document is taken alone			
	ecial reason (as specified)	"Y" document of particular relevance; the considered to involve an inventive			
	cument referring to an oral disclosure, use, exhibition or other	combined with one or more other suc being obvious to a person skilled in	h documents, such combination		
the	cument published prior to the international filing date but later than priority date claimed	"&" document member of the same paten			
Date of the	actual completion of the international search	Date of mailing of the international sea			
11 APRIL	11 APRIL 2000 2 6 APR 2000				
Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Authorized officery Authorized officery Authorized officery					
Box PCT		DONNA JAGOE	THE YELL		
Facsimile N	n, D.C. 20231 (o. (703) 305-3230	Telephone No. (703) 308-1235			

INTERNATIONAL SEARCH REPORT

International application No. PCT/US00/04442

B. F	IELDS	SEAF	RCHED
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Electronic data bases consulted (Name of data base and where practicable terms used):

West, STN, file registry, adisaletts, adisinsight, aidsline, biobusiness, biosis, cancerlit, caplus, cen, cin, confsci, druglaunch, drugmonog2, drugnl, embal, embase, ifipat, investext, ipa, jicst-eplus, lifesci, medline, napralert, phic, phin, promt, scisearch, toxline. Key words: 94-09-7 (benzocaine), 79-10-7 (acrylic acid), 102-71-6 (triethanolamine), mouth wash, mouth rinse, oral rinse, alcohol free, etch free, non alcoholic, anesthetic, anaesthetic, local anesthetic.

27

emulsifier <1.5 1 2 flavoring agent0.001-2 carbomer >0.08 -10 3 >0.04 - 5 benzocaine 4 5 preservative < 0.05 >80 6 water 7 buffering agent2-5 sweetening agent 0.001-0.25 8 9 sodium benzoate 0.05-0.2 weak acid 0.01 - 1neutralizing agent other than benzocaine 10 0.001 - 311 12 13 17. The non-alcoholic aqueous oral rinse of claim 12, wherein said rinse comprises the following ingredients in the following amounts: 14 15 polysorbate 0.12 cocamidopropyl Betaine 0.60 16 flavoring agent0.19 17 18 carbomer 0.04 benzocaine 0.08 19 20 methylparaben 0.12 21 water 94.10 22 sodium citrate 2.78 23 sodium saccharin 0.09 24 sodium benzoate 0.11 25 citric acid 0.08 26 triethanolamind.69

1	18.	A process for making a non-alcoholic aqueous oral rinse comprising the
2	following step	os:
3	(i)	dispersing carbomer in aqueous media; and
4	(ii)	adding more than 0.04% by weight benzocaine to the media.
5		
6	19.	The process of claim 18, wherein the ratio of benzocaine to carbomer is
7	approximately	y 2:1.
8		
9 .	20.	The process of claim 15, additionally comprising step (iii), wherein a
0	neutralizing a	gent other than benzocaine is added to over neutralize the carbomer and form
1	a transparent	solution.

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REC'D 2 6 JUL 2001

INTERNATIONAL PRELIMINARY EXAMINATION POT

(PCT Article 36 and Rule 70)

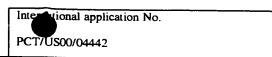
Applicant's or agent's file reference	FOR FURTHER ACTION	See Notification of Transmittal of International			
5274.01	Preliminary Examination Report (Form PCT/II				
International application No.	International filing date (day/month/year) Priority date (day/month/year)				
PCT/US00/04442	23 February 2000 (23.02.2000)	23 February 1999 (23.02.1999)			
International Patent Classification (IPC)	or national classification and IPC				
IPC(7): A61K 6/00, 31/04; A01N 33/18	, 33/24 and US Cl.: 424/401; 514/	740, 741, 901			
Applicant					
DEN-MAT CORPORATION					
This international prelimir Examining Authority and	1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.				
2. This REPORT consists of	a total of sheets, including	g this cover sheet.			
which have been ame before this Authority	ended and are the basis for this (see Rule 70.16 and Section 6	s, sheets of the description, claims and/or drawings report and/or sheets containing rectifications made 507 of the Administrative Instructions under the PCT).			
These annexes consist of a	a total of Sheets.				
3. This report contains indica	ations relating to the following	items:			
I Basis of the rep	oort				
II Priority					
III Non-establishm	ent of report with regard to no	ovelty, inventive step and industrial applicability			
IV Lack of unity o	f invention	*			
	ment under Article 35(2) with r itations and explanations suppo-	regard to novelty, inventive step or industrial orting such statement			
VI Certain docume	ents cited				
VII Certain defects	in the international application	1			
VIII Certain observa	VIII Certain observations on the international application				
Date of submission of the demand	Date	e of completion of this report			
13 September 2000 (13.09.2000)	04 Ju	une 2001 (04.06.2001)			
Name and mailing address of the IPEA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703)305-3230 Authorized office Marianne Cintins Telephone No. (703) 308-0193					

Form PCT/IPEA/409 (cover sheet)(July 1998)

International application No.	
PC1+2S00/04442	

I.	Basis	s f the report
1.	With	regard to the elements of the international application:*
		the international application as originally filed.
	\boxtimes	the description:
		pages 1-10 as originally filed
		pages NONE, filed with the demand
	<u></u>	pages NONE, filed with the letter of
		the claims:
		pages 11-12 , as originally filed
		pages NONE, as amended (together with any statement) under Article 19 pages NONE, filed with the demand
		pages 13 and 14, filed with the letter of 03 April 2001 (03.04.2001)
	\boxtimes	the drawings:
	_	pages NONE, as originally filed
		pages NONE, filed with the demand
		pages NONE , filed with the letter of
	\boxtimes	the sequence listing part of the description:
		pages NONE , as originally filed
		pages NONE , as originally filed pages NONE , filed with the demand pages NONE , filed with the letter of
2	With	h regard to the language, all the elements marked above were available or furnished to this Authority in the
-	langi	uage in which the international application was filed, unless otherwise indicated under this item.
		se elements were available or furnished to this Authority in the following language which is:
		the language of a translation furnished for the purposes of international search (under Rule23.1(b)).
		the language of publication of the international application (under Rule 48.3(b)).
		the language of the translation furnished for the purposes of international preliminary examination(under Rules
		55.2 and/or 55.3).
3.		h regard to any nucleotide and/or amino acid sequence disclosed in the international application, the
	inter	mational preliminary examination was carried out on the basis of the sequence listing:
		contained in the international application in printed form.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority in written form.
		furnished subsequently to this Authority in computer readable form.
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the
		international application as filed has been furnished.
		The statement that the information recorded in computer readable form is identical to the written sequence listing
		has been furnished.
4.	\boxtimes	The amendments have resulted in the cancellation of:
		the description, pages NONE
		the claims, Nos. NONE
_		the drawings, sheets/fig NONE
5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
*		cement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in
thi:	s repoi	ort as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).
77	Any re	replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.





Claims 1-20 Claims NONE	YES NO
Claims 1-20	YES
	NO
Claims NONE	NO NO
	Claims NONE Claims 1-20 Claims NONE Claims 1-20

Form PCT/IPEA/409 (Box V) (July 1998)

CORRECTED VERSION

(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 31 August 2000 (31.08.2000)

PCT

(10) International Publication Number WO 00/4994 A1

- (51) International Patent Classification⁷: A61K 6/00, 31/04, A01N 33/18, 33/24
- (21) International Application Number: PCT/US00/04442
- (22) International Filing Date: 23 February 2000 (23.02.2000)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/121,430

23 February 1999 (23.02.1999) US

- (71) Applicant (for all designated States except US): DEN-MAT CORPORATION [US/US]; 2727 Skyway Drive, Santa Maria, CA 93455 (US).
- (72) Inventors: IBSEN, Robert, L.; 1715 East Marie Street, Santa Maria, CA 93454 (US). MATTHEWS, Alan; 4306 Foxen Court, Santa Maria, CA 93455 (US). CHADWICK, Thomas, C.; 496 Alegre Avenue, Nipomo, CA 93444 (US). PINEDA, Rachel; 927 West Stowell Road, Santa Maria, CA 93458 (US).
- (74) Agent: RYAN, John, W.; Dorsey & Whitney LLP, Suite 300 South, 1001 Pennsylvania Avenue, N.W., Washington, DC 20004 (US).

- (81) Designated States (national): AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

- With international search report.
- (48) Date of publication of this corrected version:

29 March 2001

(15) Information about Correction: see PCT Gazette No. 13/2001 of 29 March 2001, Section Π

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.





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INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

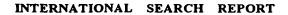
Applicant's or agent's file reference 5274.01	FOR FURTHER see Notification of ACTION (Form PCT/ISA/22	Transmittal of International Search Report O) as well as, where applicable, item 5 below.			
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)			
PCT/US00/04442	23 FEBRUARY 2000	23 FEBRUARY 1999			
Applicant DEN-MAT CORPORATION					
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of					
1. Certain claims were foun	d unsearchable (See Box I).				
2. Unity of invention is lack	ing (See Box II).				
3. The international application international search was can	ried out on the basis of the sequence listing filed with the international application. furnished by the applicant separately from the but not accompanied by a statem.				
	going beyond the disclosure in the transcribed by this Authority.	ne international application as filed.			
4. With regard to the title,	the text is approved as submitted by the applic	cant.			
	the text has been established by this Authority	to read as follows:			
5. With regard to the abstract,					
X	the text is approved as submitted by the applic	eant			
	the text has been established, according to Rulin Box III. The applicant may, within one ninternational search report, submit comments to	e 38.2(b), by this Authority as it appears			
6. The figure of the drawings to be published with the abstract is:					
Figure No	as suggested by the applicant.	<u></u>			
H	because the applicant failed to suggest a figure	None of the figures.			
H	_				
For DOTAGA DIO (5	because this figure better characterizes the inve	enuon.			

Form PCT/ISA/210 (first sheet)(July 1992)*

INTERNATIONAL SEARCH REPORT

International application No. PCT/US00/04442

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) :A61K 6/00, 31/04; A01N 33/18, 33/24 US CL :424/401; 514/740, 741, 901 According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIELDS SEARCHED				
Minimum documentation searched (classification system followed by classification symbols) U.S.: 424/401; 514/740, 741, 901				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Extra Sheet.				
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where app	propriate, of the relevant passages	Relevant to claim No.	
X	US 5,547,657 A (SINGLETON (20.08.1996), see entire document.	et al.) 20 August 1996	1-3, 10-13	
Α	(20.08.1990), see entire document.		4-9, 13-20	
Y,P	US 5,994,383 A (DYER et al) 30 November 1999 (30.11.1999), column 7, lines 28-46, column 11, lines 53-65, column 14, line 4.		1-20	
	·			
Furth	er documents are listed in the continuation of Box C	See patent family annex.		
 Special categories of cited documents: A* document defining the general state of the art which is not considered to be of particular relevance 		To later document published after the inte date and not in conflict with the appl the principle or theory underlying the	ication but cited to understand	
L do-	ther document published on or after the international filing date cument which may throw doubts on priority claim(s) or which is not to establish the publication date of another citation or other scial reason (as specified)	"X" document of particular relevance; the considered novel or cannot be conside when the document is taken alone "Y" document of particular relevance; the	e claimed invention cannot be	
me	cument referring to an oral disclosure, use, exhibition or other	considered to involve an inventive combined with one or more other sucl being obvious to a person skilled in t	documents, such combination	
P document published prior to the international filing date but later than the priority date claimed		*&* document member of the same patent family		
Date of the actual completion of the international search 11 APRIL 2000		Date of mailing of the international sea 26 APR 2000	arch report	
Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231		Authorized officery Sawres. DONNA JAGOE	nce Fer	
Facsimile N	o. (703) 305-3230	Telephone No. (703) 308-1235		



International application No. PCT/US00/04442

	101/0500/04442			
D. WINI DO OF A DOUGH				
B. FIELDS SEARCHED Electronic data bases consulted (Name of data base and where practicable terms used):				
2.55404.0 5044 50456 5041664 (1741116 of 0818 0856 800 where practicable terms use	ea):			
West, STN, file registry, adisaletts, adisinsight, aidsline, biobusiness, biosis, cancerlit, caplus, cen, cin, confsci, druglaunch, drugmonog2, drugnl, embal, embase, ifipat, investext, ipa, jicst-eplus, lifesci, medline, napralert, phic, phin, promt, scisearch, toxline. Key words: 94-09-7 (benzocaine), 79-10-7 (acrylic acid), 102-71-6 (triethanolamine), mouth wash, mouth rinse, oral rinse, alcohol free, etch free, non alcoholic, anesthetic, anaesthetic, local anesthetic.				
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